

JC17 Rec'd PCT/PTO 20 SEP 2005

IN THE CLAIMS

1. (Currently Amended) ~~Method~~ A method for the production of a dental moulded part, having the following steps:

- (a) production of a model (2) of the moulded part to be formed,
- (b) production of a coquille (11) having a hollow space (11) the form of which corresponds in substance to the form of the model (2),
- (c) production of a casting (2) by filling of the coquille hollow space (11) with a hardenable material and
- (d) allowing the casting to harden (20), ~~characterized in that,~~ wherein, the model (2) produced in step a) is provided with an offset (2a, 2b, 2c) which is taken into account in the production of the coquille (2) ~~and in that~~ so that after the hardening of the casting (20) ~~this is~~ the model may be worked by material removal to produce the dental moulded part.

2. (Currently Amended) ~~Method~~ The method according to claim 1, ~~characterized in that,~~ wherein, at least a cavity side of the model (2) is completely provided with an offset (2a, 2b, 2c).

3. (Currently Amended) ~~Method~~ The method according to claim 1, ~~characterized in that,~~ wherein,

at least an occlusal side of the model (2) is completely provided with an offset (2a, 2b, 2c).

4. (Currently Amended) ~~Method~~ The method according to claim 1, characterized in that, wherein, the entire surface of the model (2) is provided with an offset (2a, 2b, 2c).

5. (Currently Amended) ~~Method~~ The method according to ~~any preceding claim, characterized in that, claim 1, wherein~~ the thickness of the offset (2a, 2b, 2c) depends upon the form of the moulded part to be produced.

6. (Currently Amended) ~~Method~~ The method according to ~~any preceding claim, characterized in that, claim 1, wherein~~ the thickness of the offset (2a, 2b, 2c) depends upon the hardenable material.

7. (Currently Amended) ~~Method~~ The method according to ~~any preceding claim, characterized in that, claim 1, wherein~~

the model (2) of the moulded part to be formed is produced on the basis of an optical measurement of a tooth stump (1) on which the moulded part is to be arranged.

8. (Currently Amended) ~~Method~~ The method according to claim 7, characterized in that, wherein

the model (2) with the offset (~~2a, 2b, 2c~~) is produced with the aid of a three-dimensional CAD reconstruction, wherein ~~the~~ data obtained in the optical measurement of the tooth stump (1) is taken into account.

9. (Currently Amended) ~~Method~~ The method according to ~~any~~ preceding claim, characterized in that, claim 1, wherein

the coquille (10) is produced by working of at least one coquille blank (~~12, 15~~) with a material removing machine.

10. (Currently Amended) ~~Method~~ The method according to claim 9, characterized in that, wherein

the working of the at least one coquille blank (~~12, 15~~) is effected fully automatically, ~~in particular~~ by means of milling, turning, boring and/or grinding.

11. (Currently Amended) ~~Method~~ The method according to claim 10, characterized in that, wherein

a material removal program, taking into account the desired contours of the coquille (10) and of the coquille hollow space (11), contains control commands for the material removing machine.

12. (Currently Amended) ~~Method~~ The method according to ~~claim 8 and claim 10, that,~~ wherein

the material removal program is produced on the basis of the three-dimensional CAD reconstruction of the model (2) provided with the offset (2a, 2b, 2c).

13. (Currently Amended) ~~Method~~ The method according to ~~any of claims 9 to 12, characterized in that,~~ claim 9, wherein

upon production of the coquille (10) ~~at the same time~~ at least one inlet channel (21) is worked into the coquille blank (12, 15).

14. (Currently Amended) ~~Method~~ The method according to ~~any preceding claim, characterized in that,~~ claim 1, wherein

after the hardening, ~~[[of]]~~ the casting (20), ~~for working this is placed, not bedded out,~~ is placed together with the coquille (10) in a mould receiver of a material removing machine.

15. (Currently Amended) ~~Method~~ The method according to ~~any of claims 9 to 13 and claim 14,~~ wherein

for the working of the coquille blank (12, 15) and of the casting (20) the same machine is employed, wherein the coquille is again put in place in the tool receiver exactly repositioned.

16. (Currently Amended) ~~Method~~ The method according to claim 14 or 15, characterized in that, wherein

in the working of the casting (20); the coquille material (13, 16) serves as support or mounting material.

17. (Currently Amended) ~~Method~~ The method according to claim 16, characterized in that, wherein

the working of the casting (20) is effected in at least two steps, in which and in each ~~case~~ step a certain region of the casting (20) is worked, wherein the previously ~~already~~ worked region of the casting (20) is ~~again~~ surrounded with a ~~bedding mass~~ (22), in particular a milling wax or a plastic bedding mass.

18. (Currently Amended) ~~Method~~ The method according to ~~any of~~ claims 14 to 17, characterized in that, claim 14, wherein

the working of the casting (20) is effected fully automatically, in particular by milling, turning, boring and/or grinding.

19. (Currently Amended) ~~Method~~ The method according to claim 18,
~~characterized in that, wherein~~

a material removal program taking into consideration the contours of the casting (20) and of the moulded part to be produced contains control commands for the material removing machine.

20. (Currently Amended) ~~Method~~ A method for the production of a dental moulded part, having the following steps:

- a) production of a model (2) of the moulded part to be formed,
- b) production of a coquille (10) having a hollow space (11) the form of which corresponds in substance to the form of the model (2),
- c) production of a casting (20) by filling of the coquille hollow space (11) with a hardenable material and
- d) allowing the casting to harden (20),

~~characterized in that, wherein~~

after the hardening, ~~of the casting (20) this~~ is worked in a material removing fashion, in order to produce the moulded part, and wherein for this purpose the casting (20), not bedded out, is put in place together with the coquille (10) in a tool receiver of a material removing machine.

21. (Currently Amended) ~~Method~~ The method according to claim 20,
~~characterized in that, wherein~~

in the working of the casting (20); the coquille material (13, 16) serves as support or mounting material.

22. (Currently Amended) ~~Method~~ The method according to claim 21, characterized in that, wherein

the working of the casting (20) is effected in at least two steps, in which and in each case a certain region of the casting (20) is worked, wherein the previously already worked region of the casting (20) is ~~again~~ surrounded with a ~~bedding mass (22)~~, in particular a milling wax or a plastic bedding mass.

23. (Currently Amended) ~~Method~~ The method according to ~~any of~~ claims 20 to 23, characterized in that, claim 20, wherein

the working of the casting (20) is effected fully automatically, in particular by milling, turning, boring and/or grinding.

24. (Currently Amended) ~~Method~~ The method according to ~~any~~ preceding claim, characterized in that, claim 1, wherein

the moulded part is formed of a noble metal alloy.

25. (Currently Amended) ~~Method~~ The method according to ~~any of~~ claims 1 to 23, characterized in that, claim 1, wherein

the moulded part is formed of a non-iron metal alloy, ~~in particular of~~
~~a Co-Cr-Mo alloy.~~

26. (New) The method of claim 1, wherein the moulded part is formed
of a Co-Cr-Mo alloy.